Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-11-29-69** **Date: 25-07-19**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of Library Building in Yelahanka New Town 5th Phase Chowdeshwari in Chowdeshwari Ward No-02.
Agency	:	Sri Lokesha A(SRI PUSHPAGIRI ENTERPRISES) Shop No 1606/169, Rajanukunte Vill and Post, Bangalore-64.
Customer's Reference	:	EE(YNK.D)E-PMT-01/W.O/0090/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-07-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	23-07-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.08	–
2	Finess by Air permeablity method (m^2/kg,Min)	298.5	225m^2/kg, Min
3	Density (gm/cc)	3.13	–
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	145 minutes	Not less than 30 minutes
6	Final Setting time	275 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

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All information furnished by Customer/Representative

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2019-11-29-69 **Date: 20-08-19**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of Library Building in Yelahanka New Town 5th Phase Chowdeshwari in Chowdeshwari Ward No-02.
Agency	:	Sri Lokesha A(SRI PUSHPAGIRI ENTERPRISES) Shop No 1606/169, Rajanukunte Vill and Post, Bangalore-64.
Customer's Reference	:	EE(YNK.D)E-PMT-01/W.O/0090/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-07-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	23-07-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength			
Sl.No.	**Physical properties**	**Results**	**Requirement as per IS 12269: 2013**
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-11-29-69** **Date: 25-07-19**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of Library Building in Yelahanka New Town 5th Phase Chowdeshwari in Chowdeshwari Ward No-02.
Agency	:	Sri Lokesha A(SRI PUSHPAGIRI ENTERPRISES) Shop No 1606/169, Rajanukunte Vill and Post, Bangalore-64.
Customer's Reference	:	EE(YNK.D)E-PMT-01/W.O/0090/2019-20
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	22-07-19
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	22-07-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	189	189	1.3	98.7	90-100
3	20 mm	7284	7473	49.8	50.2	30-70
4	10 mm	4089	11562	77.1	22.9	10-35
5	4.75 mm	3001	14563	97.1	2.9	0-5
6	Pan	437	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-11-29-69** **Date: 24-07-19**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of Library Building in Yelahanka New Town 5th Phase Chowdeshwari in Chowdeshwari Ward No-02.
Agency	:	Sri Lokesha A(SRI PUSHPAGIRI ENTERPRISES) Shop No 1606/169, Rajanukunte Vill and Post, Bangalore-64.
Customer Reference	:	EE(YNK.D)E-PMT-01/W.O/0090/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-07-19
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	22-07-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : **5000** grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	199	199	4.0	96.0	90-100
3	10 mm	3050	3249	65.0	35.0	25-55
4	4.75 mm	1502	4751	95.0	5.0	0-10
5	Pan	249	5000	100	0	–

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2019-11-29-69** **Date: 24-07-19**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of Library Building in Yelahanka New Town 5th Phase Chowdeshwari in Chowdeshwari Ward No-02.
Agency	:	Sri Lokesha A(SRI PUSHPAGIRI ENTERPRISES) Shop No 1606/169, Rajanukunte Vill and Post, Bangalore-64.
Customer's Reference	:	EE(YNK.D)E-PMT-01/W.O/0090/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-07-19
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	22-07-19
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF CEMENT CONCRETE KERB STONE

Lab ID	:	**CP-2019-11-29-69** **Date: 03-08-19**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of Library Building in Yelahanka New Town 5th Phase Chowdeshwari in Chowdeshwari Ward No-02.
Agency	:	Sri Lokesha A(SRI PUSHPAGIRI ENTERPRISES) Shop No 1606/169, Rajanukunte Vill and Post, Bangalore-64.
Customer's Reference	:	EE(YNK.D)E-PMT-01/W.O/0090/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-07-19
Sample Type /Size	:	CC Kerb Stone/ 450*165*400mm
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	30/07/2019

Sl No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
1	A	100.01	165.51	2.864	7854	142.1	18.1	18.1	22.6
2	B	100.03	165.49	2.793	7857	145.2	18.5	18.5	23.1
3	C	100.01	165.50	2.815	7854	145.1	18.5	18.5	23.1

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 03/08/2019

Lab ID	:	CP-2019-11-29-69
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of Library Building in Yelahanka New Town 5th Phase Chowdeshwari in Chowdeshwari Ward No-02.
Agency	:	Sri Lokesha A(SRI PUSHPAGIRI ENTERPRISES) Shop No 1606/169, Rajanukunte Vill and Post, Bangalore-64.
Customer's Reference	:	EE(YNK.D)E-PMT-01/W.O/0090/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-07-19
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl 5
Date of test	:	03/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	27/07/2019	03/08/2019	151.92 X 151.82 X 149.79	23064	8.849	427.7	18.5	18.4
2	PCC	M20	27/07/2019	03/08/2019	151.28 X 149.91 X 149.68	22678	8.629	416.6	18.4	
3	PCC	M20	27/07/2019	03/08/2019	150.02 X 149.37 X 150.39	22409	8.685	411.5	18.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-11-29-69** **Date: 03/08/2019**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of Library Building in Yelahanka New Town 5th Phase Chowdeshwari in Chowdeshwari Ward No-02.
Agency	:	Sri Lokesha A(SRI PUSHPAGIRI ENTERPRISES) Shop No 1606/169, Rajanukunte Vill and Post, Bangalore-64.
Customer's Reference	:	EE(YNK.D)E-PMT-01/W.O/0090/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-07-19
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	03/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	27/07/2019	03/08/2019	150.63 X 150.05 X 149.52	22603	8.849	407.2	18.0	18.3
2	PCC	M20	27/07/2019	03/08/2019	149.80 X 149.90 X 150.30	22454	8.629	405.6	18.1	
3	PCC	M20	27/07/2019	03/08/2019	150.42 X 149.75 X 150.28	22525	8.685	423.1	18.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-11-29-69** **Date: 24/08/2019**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of Library Building in Yelahanka New Town 5th Phase Chowdeshwari in Chowdeshwari Ward No-02.
Agency	:	Sri Lokesha A(SRI PUSHPAGIRI ENTERPRISES) Shop No 1606/169, Rajanukunte Vill and Post, Bangalore-64.
Customer's Reference	:	EE(YNK.D)E-PMT-01/W.O/0090/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-07-19
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	24/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	27/07/2019	24/08/2019	149.96 X 151.70 X 151.98	22749	8.357	543.2	23.9	23.2
2	PCC	M20	27/07/2019	24/08/2019	150.87 X 150.00 X 149.94	22631	8.861	501.3	22.2	
3	PCC	M20	27/07/2019	24/08/2019	150.24 X 149.11 X 151.48	22403	8.208	530.1	23.7	

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CEMENT CONCRETE PRECAST CONCRETE BLOCKS FOR PAVING

Lab ID	:	CP-2019-11-29-69 **Date: 10-08-19**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of Library Building in Yelahanka New Town 5th Phase Chowdeshwari in Chowdeshwari Ward No-02.
Agency	:	Sri Lokesha A(SRI PUSHPAGIRI ENTERPRISES) Shop No 1606/169, Rajanukunte Vill and Post, Bangalore-64.
Customer Reference	:	EE(YNK.D)E-PMT-01/W.O/0090/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-08-19
Sample Type/ Size	:	Precast concrete blocks for paving
Reference to BIS codes	:	IS 15658:2006
Date of test	:	05-08-19

1.Compressive Strength

Sl.No.	Dimension (mm)			Compressive Strength		Average	
	L	B	T	(N/mm^2)	(Kg/cm^2)	(N/mm^2)	(Kg/cm^2)
1	197.22	159.88	60.99	28.3	283	29.7	297.0
2	198.48	159.64	60.25	31.2	312		
3	199.54	159.54	60.48	29.4	294		
4	197.68	159.22	60.55	30.5	305		
5	198.11	159.87	60.32	30.4	304		
6	198.18	160.02	60.11	30.4	304		
7	198.45	158.99	60.98	28.6	286		
8	197.22	159.22	60.12	28.7	287		

2. Water Absorption

Sl.No.	Wet Weight	Dry weight	Thickness	Water Absorption (%)	Average (%)
1	4.987	4.828	60.85	3.29	3.64
2	4.898	4.721	60.22	3.75	
3	4.988	4.802	60.44	3.87	

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